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APPLICATION NO.	FILI	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/678,610	10/03/2003		Gilbert W. McKenna	56229-160(ANAK-225)	9424	
75	90	03/21/2005		EXAMINER		
Toby H. Kusn			CHURCH,	CHURCH, CRAIG E		
McDERMOTT, WILL & EMERY 28 State Street				ART UNIT	PAPER NUMBER	
Boston, MA (	2109		2882			

DATE MAILED: 03/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/678,610	MCKENNA, GILBERT W.					
Office Action Summary	Examiner	Art Unit					
	Craig E. Church	2882					
The MAILING DATE of this communication ap		correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
<ol> <li>Responsive to communication(s) filed on</li> <li>This action is FINAL. 2b)∑ This action is non-final.</li> <li>Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.</li> </ol>							
Disposition of Claims							
4)⊠ Claim(s) <u>1-25</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) 1-25 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)     Notice of Draftsperson's Patent Drawing Review (PTO-948)     Notice of Draftsperson's Patent Drawing Review (PTO-948)     Notice of References Cited (PTO-892)     Notice of PTO-948)     Notice of Draftsperson's Patent Drawing Review (PTO-948)     Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summa Paper No(s)/Mail 5) Notice of Informal 6) Other:						
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)  Office A	Action Summary	Part of Paper No./Mail Date 20050309					

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The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 21 is rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a Bucky comprising a grid, does not reasonably provide enablement for a Bucky that does not have a grid. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to practice the invention commensurate in scope with this claim.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pagano (6088427). Pagano teaches Bucky apparatus comprising abtiscatter grid 16 supported for oscillation in housing 14, motor 20, crank19 linked to grid 16 via arm 18, counterweight 23 and crank 21 linked to counterweight 23 via arm 22. Rotary motion of the motor is converted to linear motion by cranks 19 and 21 so that grid 16 is reciprocated in one direction, and counterweight 23 is reciprocated in the opposite direction. Counterweight 23 balances the mass of grid 16 in its reciprocating motion (lines 9-10 of column 4). Pagano does not disclosed use of cams, but cams are a notorious alternative to cranks for converting rotary motion to linear motion, and it would

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have been obvious to substitute a cam mechanism for the crank drive in Pagano's

system since cams provide quieter operation than cranks (an important consideration in

medical imaging).

Claims 21-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Pagano as above in view of Hill (3980407). Hill teaches an x-ray shutter including an

endless belt 22 reeved around a drive pulley 20 and an idler pulley 21, a reversible

motor 25 for driving pulley 20, and shutter plates 23 and 24 attached to different

sections of the belt so that they are reciprocated in opposite directions. Endless belt

drives are notorious mechanisms for converting rotary motion to linear motion, and it

would have been obvious to substitute such a belt mechanism for the crank drive in

Pagano's system since belt drives provide less vibration and quieter operation than

cranks (important considerations in medical imaging).

The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

Any inquiry concerning this communication should be directed to Examiner Craig

E. Church at telephone number (571) 272-2488.

Chang E Church

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Craig E. Church Senior Examiner Art Unit 2882